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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/ 058,490
	Filing Date	January 28, 2002
	First Named Inventor	William A. Gindlesperger
	Group Art Unit	2165
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	085919.00002

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input checked="" type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input checked="" type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Preliminary Amendment, Specification as filed in parent application, Exhibits A and B, and Post Card
Remarks The Commissioner is hereby authorized to charge any fees due or to credit any overpayment to Deposit Account No. 50-1794.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Robert J. Depke, Holland & Knight LLC 131 South Dearborn, 30th Floor, Chicago, IL 60603
Signature	
Date	4/28/03

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 04/28/03			
Typed or printed name	Robert J. Depke (37,607)	Date	04/28/03
Signature			

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PTO/SB/17 (01-03)
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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 650.00)

Complete if Known

Application Number 10/ 058,490

Filing Date January 28, 2002

First Named Inventor William A. Gindlesperger

Examiner Name

Art Unit 2165

Attorney Docket No. 085919.00002

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit
Account
Number
Deposit
Account
Name

50-1794

Holland & Knight LLC

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$ 0.00)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	Extra Claims	Fee from below	Fee Paid
Total Claims	-20** =	X	
Independent Claims	-3** =	X	
Multiple Dependent			

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 0.00)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	650.00
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 650.00)

SUBMITTED BY

Name (Print/Type)

Robert J. Depke

Registration No.

37,607

(Complete if applicable)

Telephone 312-422-9050

Signature

Date

April 28, 2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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**Assistant Commissioner For Patents
BOX DAC
Washington, D.C. 20231**



Attorney for Applicant



#5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**Applicant:** William A. Gindlesperger **Atty. Docket No.** 085919.00002**Serial No.:** 10/ 058,490**Group Art Unit:** 2165**Filed:** January 28, 2002**Invention:** APPARATUS AND METHOD FOR OBTAINING LOWEST BID FROM
INFORMATION PRODUCT VENDORS

**PETITION FOR REVIVAL
OF THE PATENT APPLICATION
ABANDONED UNINTENTIONALLY
UNDER 37 C.F.R. SECTIONS 1.136(b) AND 1.316**

Commissioner for Patents
Washington, D.C. 20231

Commissioner:

Applicant and the undersigned patent attorney hereby petition to revive the above-referenced application in accordance with the provisions of 37 C.F.R. §§1.137(b) and 1.316.

1. The present application is a continuation application of USSN 09/383,371.
2. A Notice to File Missing Parts of Nonprovisional Application was mailed on March 1, 2002 (Exhibit A). The Notice requested an Oath or declaration and substitute specification and drawings because the papers as originally submitted for filing did not contain the proper margins requirements. The initial period for response expired on May 1, 2002.
3. A response to the Notice to File Missing parts was submitted on September 3, 2002, with the requisite request for a four month extension (Exhibit B).

05/05/2003 SLUANG1 00000026 10058490

01 FC:2453

650.00 OP

4. The substitute specification submitted with the Response To Missing Parts is in compliance with the margin requirements. However, the specification did not include the claims as originally filed in the parent application. This was due to the fact that all of the original claims were canceled in a preliminary amendment submitted concurrently with the filing of the new application. The original claims were thus not considered part of the specification by the undersigned.

5. During a recent review of the application status, an assistant to the undersigned noticed that the Patent Office records indicated the application was still at OIPE. Further discussion with the Office identified the asserted deficiency with the prior response. Specifically, a representative of the Office indicated that the prior response was considered incomplete due to the fact the canceled claims were not resubmitted with the specification in compliance with the margin requirements. The representative indicated a Notice of Abandonment would be issued shortly.

6. Applicant submits that a timely response to the outstanding Office Action was submitted and thus the abandoned status is inappropriate. Applicant submits that the canceled claims are not part of the specification because they have been canceled. Thus, Applicant submits a timely compliant response has been submitted and the application should not be considered abandoned. However, should the Patent Office maintain its position that the prior response should also have included the canceled claims, applicant has now included a new version of the original specification along with the original canceled claims.

7. Applicant submits herewith the complete original specification including the canceled claims satisfying the margin requirements and requests that this application now be revived and assigned to an Examiner for examination in due course.

8. The undersigned states that this Petition is being submitted prior to receiving a Notice of Abandonment and that all delay in submitting the complete response was unintentional as detailed above.

A check in the in amount of \$650.00 for payment of the Petition fee is enclosed. If any additional fees are required, authorization is hereby given to charge our Deposit Account Number 50-1794.

Applicant requests that this application now be revived and that the attached response now be considered.

Respectfully submitted,

Date: April 28, 2003

  (Reg. #37,607)
Robert J. Depke
HOLLAND & KNIGHT LLC
131 South Dearborn Street, 30th Floor
Chicago, Illinois 60603
Tel: (312) 422-9050
Attorney for Applicant



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/058,490	01/28/2002	William Gindlesperger	42006294

Robert J. Depke
Mayer, Brown & Platt
P.O. Box 2828
Chicago, IL 60690

Rep (MP)
DUE: *5-8-2002*
DATE: *5-8-2002*
DIED: *✓*



CONFIRMATION NO. 3278

FORMALITIES LETTER



QC000000007562259*

Date Mailed: 03/01/2002

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 65.**

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- A substitute specification in compliance with 37 CFR 1.52 because:
 - Papers contain improper margins. *Each sheet must have a left margin of at least 2.5 cm (1") and top, bottom and right margins of at least 2.0 cm (3/4")*
- Substitute drawings in compliance with 37 CFR 1.84 because:
 - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch) and a bottom margin of at least 1.0 cm. (3/8 inch);

RECEIVED

MAR 12 2002

MAYER BROWN & PLATT
DOCKETING
ENT'D

A copy of this notice MUST be returned with the reply.

JS

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



42006294

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)

WILLIAM GINDLESPERGER)

Examiner: Nguyen, C.)

Serial No.)

Group Art Unit: 2165)

Filed: January 28, 2002)

For: APPARATUS AND METHOD)
FOR OBTAINING LOWEST)
BID FROM INFORMATION)
PRODUCT VENDORS)

CERTIFICATE OF MAILING BY "EXPRESS MAIL"
"Express Mail" mailing label number EL744232775US
Date of deposit JANUARY 28, 2002
I hereby certify that this paper or fee is being deposited with
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indicated above and is addressed to Assistant
Commissioner for Patents,
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Box: Patent Amendment
Commissioner for Patents
Washington, D.C. 20231
Sir:

Preliminarily to examination, please amend the above referenced application
as follows:

IN THE SPECIFICATION:

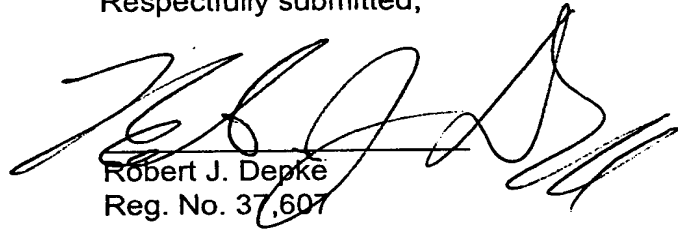
On page 1, before line 1, insert:

-- This applicaiton is a continuation of application Serial No. 09/383,371, filed
August 26, 1999, which is incorporated herein by reference and claims priority to
provisional applicaiton No. 60/097,972, filed August 26, 1998. --

REMARKS

Applicant respectfully requests entry of this Preliminary Amendment and consideration of this application in light of this continuation application. If there are any other fees due in connection with the filing of this Preliminary Amendment, please charge such fees to our Deposit Account No. 13-0019. If a fee is required for an extension of time under 37 C.F.R. 1.136 not accounted for above, such as an extension, it is requested that the fee should also be charged to Deposit Account No. 13-0019.

Respectfully submitted,



Robert J. Depke
Reg. No. 37,607

Mayer, Brown & Platt
190 South LaSalle Street
Chicago, IL 60603
(312) 701 -8786

Dated: January 28, 2002



CLEAN VERSION OF CLAIMS

16. A method for competitive bidding comprising steps of:

- inputting a plurality of vendor records into a portion of an electronic memory, at least one of said vendor records having a vendor capability data representing a set of vendor manufacturing capabilities of the vendor identified by said record; storing in a portion of a further electronic memory an association between a print information product vendor and a buyer;
- inputting a buyer's invitation-for-bid data into a computer memory, said buyer's invitation-for-bid data having a buyer identification data, and having an invitation for bid on a print information product job from said buyer;
- calculating a vendor requirement data from said buyer's invitation-for-bid data, said vendor requirement data representing a set of vendor manufacturing capabilities required for performing said print information product job;
- comparing said vendor requirement data to a plurality of said vendor records having a buyer identification data field identifying the buyer from which said buyer's invitation-for-bid data was received;
- identifying at least one vendor record as qualified, based on said comparing;
- transmitting a vendor's invitation-for-bid data based on said buyer's invitation-for-bid data to each vendor identified by said at least one vendor record;
- inputting into said general purpose computer a plurality of bid data, each from one of said vendors to which said vendor's invitation-for-bid data was transmitted, each of said bid data representing a bid price;
- identifying a bid data from said received bid data having the lowest represented bid price;
- outputting a selected vendor data representing the identity of the vendor corresponding to the bid data identified by said identifying step; and
- transmitting an order to the vendor represented by said selected vendor data.



**Apparatus And Method For Obtaining
Lowest Bid From Information Product Vendors**

MAY 06 2003

Field Of The Invention

5 The present invention generally relates to an apparatus and method for creating a database representing print and other information product vendor pools for one or more subscribing buyers, and for selecting the lowest bidder from the database's represented vendor pool on a per-job basis and, more particularly, for creating and
10 maintaining a database representing a vendor pool for each subscribing buyer of printing and other customized print information product goods and services, the database further representing capabilities of said vendors, receiving invitations-for-bid from buyers, extracting vendor qualification criteria data from said invitations-for-bid, transmitting
15 invitations to bid on said invitations-for-bid to qualified ones of said vendors, based on said vendor qualification criteria data, and selecting from among the responding vendors based on the response price and other factors.

Background Of The invention

20 Purchase of print and other customized information product goods and services, such as business cards and forms, envelopes, labels, pamphlets, CD ROMS, notepads, transparencies, brochures, and bound books differs from non-custom manufactured goods or services in that
25 print and other information product goods and services are generally not pre-stocked as "off-the-shelf" items but, instead, must be specifically manufactured or provided to meet the buyer's particular requirements. Consequently, print and other information product goods and services frequently cannot be purchased "off-the-shelf" at
30 fixed prices appearing on standard price lists. Instead, most print and

other information product goods and services are customized to some extent and, accordingly, their prices are established when the specific goods or services are themselves identified, either by an actual order, invitation-for-bid ("IFB"), request-for-quote ("RFQ"), or request-for-proposal ("RFP"); only then can the manufacturer or service provider
5 assess the precise quality and manufacturing or service specifications required to perform the job.

The general procedure used in the prior art of procurement of print and other customized information product goods and services is
10 that the buyer provides the actual order, or the IFB, RFQ, or RFP to one or more printers with whom, in general, the buyer has had 20 sufficient previous experience to know what type of product or level of service can be provided. For purposes of this description, the terms "printer" and "print vendor" are interchangeable and are defined as an
15 entity which manufactures or sells traditional forms of 25 printing or other non-traditional types of information product goods or services, which are or which consist of any tangible medium for communicating or displaying text, images, or other graphical or pictorial information, including, but not limited to, business forms, labels, pamphlets, books,
20 flyers, brochures, transparencies, CD ROMs, stickers, business cards, envelopes, and note pads. For purposes of this description the terms "print information product" and "print information goods" are interchangeable and defined to include all of the above-identified goods and services. The printer then reviews the buyer's product
25 manufacturing and delivery specifications or requirements contained in the order, IFB, RFQ, or RFP including physical specifications, characteristics of style, quantities, mode of shipment, delivery schedule, and quality level required to perform individual jobs or estimated job requirements over a given period of time and, based on or extrapolating
30 from previous experiences, provides an estimated price or bid to the

buyer. Generally the buyer will provide the order, invitation-for-bid, request-for-quote, or request-for-proposal to a single or very limited number of print vendors, and award the contract to the single or lowest bidder.

5 In following this general procedure in the prior art, however, buyers of printing and other customized information product goods or services confront the so-called "iron triangle" of quality, timeliness, and cost. Buyers want a product or service that is good, fast, and cheap, but what they discover is that traditional procurements methods will, at
10 best, only achieve two of these three ideals on any given job. Thus, a buyer might demand and receive top quality on a "rush" order, but only at a high cost. Conversely, negotiating a lower price may achieve cost savings, but also compromise quality and timeliness.

 This problem is heightened by great elasticity in the so-called
15 "market" price of printing or other customized information product goods or services, which can vary widely from vendor to vendor and from week to week. This elasticity results from one fact that pricing of such customized goods or services greatly depends on (1) the level of service and quality desired; (2) the labor and equipment required to
20 produce the job or provide the service; (3) the amount time involved in producing the job or providing the service; (4) whether the job or service can be engineered or designed in a cost-effective way; and (5) whether the customer order can be included in the print vendor's production schedule to comply with the required delivery date.

25 This last factor is particularly crucial. Most print vendors are "hard-iron" manufacturers with high overhead and labor costs. As a result, idle equipment and labor can be devastating to a print vendor's profit margin. At the same time, print vendors must be ready to service their regular customers on short notice, which means planning
30 for downtime in the production schedule to ensure that their machinery

is available for "rush" orders. Managing customer job orders in a way that minimizes these "holes" in the production schedule is frequently what distinguishes the profitable print vendor from the insolvent one.

As a result of this tension between the cost of idle equipment and labor and the need to preserve downtime for regular customers, print vendors are constantly seeking short-turnaround jobs to fill their production "holes" when their regular orders do not materialize. To obtain these short-turnaround jobs, many print vendors will resort to extremely low pricing, provided that they can do so without undermining their regular customer relations. This pricing strategy is called "contribution pricing". "Contribution" pricing is the practice of bidding out work at below normal profit margins because any income above out-of-pocket costs "contributes", 100%, to the print vendor's bottom line in comparison to cost of letting its labor and machinery remain idle. In current printing markets, "contribution" pricing on a regular basis is found only in federal and state government procurements of print information products.

In both public and private sector print information product markets, however, traditional procurement methods and prior art devices have failed to solve this "iron triangle" because of their inability to take advantage of "contribution" pricing without incurring prohibitive administrative costs or sacrificing quality or timeliness. There are many reasons for this failure. First, the purchase or procurement of printing and other customized information product goods and services frequently requires specialized knowledge and expertise in finding the right print vendor for each job. Most businesses, however, hire purchasing officials with general procurement knowledge who are then given responsibility for a wide range of purchases. As a result, the purchasing official is forced to rely on the print vendor's expertise in designing or engineering a print job,

which too often results in the most expensive (and most profitable for the print vendor) design, engineering, or production process.

Second, in order to find the manufacturer or service provider who is willing to offer the lowest "contribution" pricing on any given job, the
5 buyer must often request price quotations from dozens or even hundreds of vendors. In the actual business environment, however, there are difficulties which make selection of a print vendor willing to offer "contribution" pricing difficult for the buyer. There are also difficulties and tradeoffs which make preparation of responding bids
10 difficult for the print vendors. For example, from the buyers perspective, a first difficulty is identifying the pool of print vendors to whom it should send its IFB or RFQ. A larger vendor pool would, in theory, be desirable because it usually means a lower bid can be received. This is well-known in the general business world. However, identifying such a large vendor pool is generally not practical. A main
15 reason is that gathering and maintaining information about a large number of current and potential print vendors is time consuming and expensive. Few companies have the time, money, or inclination to maintain a large, up-to-date database on such potential vendors, particularly when soliciting dozens of bids or quotations will itself
20 require staff and administrative time that costs more than the savings generated from competitive bidding. This disparity is heightened by the fact that most print jobs involve relatively low dollar purchases or procurements.

25 In addition, even if a buyer were willing to absorb the administrative costs associated with keeping a large database of vendors to improve the competitive bidding, the buyer is often reluctant to do so because quality control becomes more difficult as the vendor pool increases. Part of quality control is to monitor the quality and
30 dependability of goods and services output by each vendor in the vendor

pool. This is difficult not due only to the volume of the information, but also to the fact that the buyer must generally obtain such information from its own dealings with the vendor. The reason is that reliability, price history, and quality of a print vendor's work for other buyers may not be obtainable. This is another reason that buyers will not seek goods or services from new vendors because negative information on their reliability or quality may then be learned first hand.

In the public sector, where federal and state agencies are often required by law to make bid opportunities available to large numbers of vendors, procurements of print information products typically result in poor quality control and relatively high administrative costs that must be subsidized by the taxpayer. In contrast, traditional procurement methods and prior art devices in the private sector have emphasized quality control by limiting the vendor pool for print information goods and services to a small number of reliable vendors with which it has previously done business. However, as the present inventor has discovered, there is a significant cost problem associated with limiting of the vendor pool to a small number. The problem is that the limited competition results in vendors offering, and charging, higher prices, being undisciplined by a more competitive market. Such prior art methods are typically based on direct negotiation with preferred vendors in established commercial relationships, often resulting in controlled term pricing that lumps procurements together in the hope of enhancing the print buyer's buying power within a narrow pool of vendors; and "best buy" or "best value" procurement practices (which are now being adopted increasingly in the public sector) that are largely creative user or quality control driven.

Because of the limitations of traditional procurement methods, print vendors are often left not only with unscheduled holes in their production schedules, but also unable to fill downtime purposefully set

aside for last minute "rush" orders from regular customers. Moreover, even those print vendors who would gain, in an immediate sense, from contribution pricing are frequently unwilling to offer that pricing to their regular customers. The reason is that the regular customer, after
5 once receiving a contribution pricing its vendor due to the vendor then facing idle machine time, would expect to pay the same low prices for its future print jobs. The regular customer would even expect the vendor to give contribution pricing at times when the vendor lacks idle production capacity. As a result, the vendor would have to displace
10 more profitable work to accept the lower paying work, in order maintain the goodwill of its customer.

The printing industry addresses the problem of maximizing machine utilization without compromising its relationship with preferred customers through sales and marketing efforts which, in
15 turn, increase the cost of each print job and which, ultimately, the print vendor passes to the print buyer through higher prices. The need to maximize factory floor and machine utilization is in no way unique to the printing industry. Is a major concern in many other customized manufacturing operations.

20 As a consequence of the foregoing, there has been a long felt need for a system and method of competitive pricing for custom printed goods and printing services that: (1) identifies and manages a large vendor pool to obtain the benefit of enhanced pricing competition, without imposing relatively high administrative costs or causing a loss
25 of quality control; (2) offers vendors an inexpensive, cost effective and reliable system for obtaining access to print jobs and specifications without added marketing costs and sales commissions; and (3) does not rely on the vendors' product expertise to establish price, but rather allows each vendor to bid high, bid low, or not bid at all based, strictly,

on their production capabilities and need to fill available time in their production schedules.

Summary Of The Invention

5 The present invention provides a system and method for selecting a printing vendor from a plurality of printing vendors, comprising steps of receiving, at a central, conventional database server termed herein as "the PrintProSysSM server", an initial vendor pool data set from each of a plurality of buyers, the initial vendor data
10 set identifying an initial vendor pool for that buyer, entering the initial vendor pool data set into a vendor database within the "PrintProSysSM server", transmitting an invitation to subscribe to each vendor in the initial vendor pool, receiving a vendor capability data from a sub-plurality of the vendors in the initial vendor pool, the vendor capability
15 data describing each vendor's print capabilities, entering the vendor capability data into the vendor database, receiving at the PrintProSysSM server a buyer's invitation-for-bid describing a customized print or other information product or service that the buyer wishes to procure or obtain bids for, calculating or extracting a vendor
20 selection criteria data from the buyer's invitation-forbid, the vendor selection criteria data defining the values that a vendor's capability data must meet to qualify for, and to receive, a vendor's invitation-forbid requesting a bid response corresponding to the buyer's invitation-for-bid.

25 The method of the present invention then compares and correlates the vendor selection criteria data to the vendor capability data field of each vendor data record in the buyer's vendor pool database. The PrintProSysSM server then transmits a vendor's invitation-for-bid data to each vendor in the buyer's vendor pool whose
30 vendor capability data field meets the vendor selection criteria data

extracted from the buyer's invitation-for-bid data. Next, the PrintProSysSM server receives a plurality of responding bid data, each being from a corresponding one of the plurality of vendors to whom a vendor invitation-for-bid data was transmitted, and each representing
5 the transmitting vendor's price for the particular print information goods or services requested. The PrintProSysSM server then selects the responding bid data having the lowest represented vendor price and generates information identifying the buyer of the identity of the selected vendor.

10 Upon the PrintProSysSM server's receipt of an approval data from the buyer, it issues an order to the selected vendor for the purchase of the at least one printed item. In addition, the PrintProSysSM server's transmits to the remaining non-selected vendors in the vendor pool a bidding result data representing the identity of the selected vendor,
15 and the rank order value bid data submitted by all other selection pool vendors.

The PrintProSysSM server of the invention has the further ability to maintain multiple vendor pools for each of a plurality of buyers, the multiple vendor pools for a particular buyer corresponding to multiple
20 print product or service types that the buyer procures.

A still further embodiment transmits a data representing the bid price of all received bids, to all vendors who submitted bids.

A further embodiment of the invention assigns a preferred vendor flag to each vendor record and then selects vendors for receiving
25 vendors' invitation-for-bid based on the flag value.

A still further embodiment of the invention automatically generates a set of project milestone data for use in monitoring the winning vendor's progress on the buyer's requested print job or service.

A still further embodiment of the invention receives an invoice
30 data from the winning print vendor upon completion of the job, and

generates a corresponding buyer's invoice in response. The system then receives a fund transfer from the buyer based on the buyer's invoice and deposits the fund into an escrow account. Next, the system subtracts a system fee from the deposited amount, transfers that system fee to a system administration account, and transmits the remainder from the escrow to the winning print vendor. This embodiment provides a single source accounting for buyers dealing with plurality of vendors.

Brief Description Of the Drawings

These features and advantages of the present invention will be more fully disclosed in, or rendered obvious by, the following detailed description of the preferred embodiment of the invention, which is to be considered together with the accompanying drawings wherein like numbers refer to like parts and further wherein:

Fig. 1 is a general flow chart showing the steps associated with a preferred first embodiment of the present invention;

Fig. 2 is a tabulated format of information fields submitted by potential subscribing print vendors for the pre-qualification step of creating a database of a buyer's pool of print vendor;

Fig. 3 is a general flow chart showing steps of a second embodiment of the invention, using a preferred vendor flag as a selection criteria for receiving invitations-for-bid; and

Fig. 4 is a general flow chart of another embodiment of the invention, having a milestone generation feature.

Detailed Description Of The Preferred Embodiments

The method and apparatus of the present invention will be better understood by a description of its operation in reference to the attached figures.

For purposes of this description the following definitions apply:

- * The index "i" identifies the particular vendor;
- * The index "j" identifies a particular buyer;
- * The value "J" is the number of buyers;
- 5 * VR_{ij} is the vendor record of the i^{th} buyer's vendor pool or, equivalently, a vendor record of a vendor "i" that is a approved by buyer "j" for receiving bids on that buyer's jobs;
- 10 * K_j is the number of vendors in the j^{th} buyer's vendor pool or, equivalently, the number of vendors having vendor records VR_{ij} indicating approval by buyer "j" for receiving bids on that buyer's jobs;
- 15 * BVP_j is the Buyer's Vendor Pool of the j^{th} buyer, referencing all of the K_j vendor records VR_{ij} associated with the j^{th} buyer;
the plurality of K_j vendor records VR_{ij} in the server database is the Buyer's Vendor Pool BVP_j , for $j=1$ to J .
Other definitions are recited where appropriate.

Referring to Fig. 1, the process begins at step 2 by inputting for
20 each of J buyers, each identified by the index j , a plurality of K_j vendor records VP_{ij} into the memory of a conventional network server running under Windows NT or any of the equivalent server operating systems that are well-known in the art. The server is termed the PrintProSyssm server for purposes of this description.

25 The method then proceeds to step 4 where an invitation-to-subscribe ITS_{ij} , for $i=1$ to K_j , is generated for each of the K_j vendors identified by the j^{th} buyer, for each of the J buyers.

Next, at step 6, a vendor capability attribute data, VA_{ij} , for $i=1$ to L_j is quantified by each of a plurality of L_j vendors, where L_j is the
30 number of vendors from the quantity K_j of vendors in the j^{th} Buyer's

Vendor Pool BVP_j from whom a vendor capability attribute data is received. For each jth buyer the value of L_j can range from zero to K_j. The vendor capability attribute data, VA_{ij} represents the manufacturing, production, or provider capabilities of the ith or
5 submitting vendor. The vendor capability attributes VA_{ij} are in terms of understandable descriptor words, having specific value tables determined by the particular implementation of the system. An example set of vendor capability attributes VA_{ij} is shown on Fig. 2, and includes the vendor's ability to generate various quantity ranges of:
10 Books, including loose-leaf, side-stitched and perfect bound; Books, Smyth-sown, case-bound; Books, saddle stitched; Books, paste on fold; Binders Only; Print Composition, including CD ROM, general, magnetic media, variable imaging, master and replication; Die Cutting and Letterpress capabilities; Four-Color Process capabilities; Cut
15 Sheets capabilities; Business Form Specialties; Continuous Form capabilities; Snap Apart Sets capability; capability for Flexography, Labels, Decal and Screen Process On Labels; capability for Screen Printing and Printing of Plastic, Mylar and Acetate; Miscellaneous Printing Processes, including thermography, engraving, foil stamping
20 and embossing; capabilities for various Specialty Items, including tabloids, microfiches, negatives, lamination, engineering drawings, tags, expansion file folder, 3-ring binders and advertising specialties; and envelopes.

At step 8 the vendor capability attributes VA_{ij} are transmitted
25 to, received by and stored by the PrintProSyssm server. The vendor capability attribute data VA_{ij} may be submitted by the vendor over the Internet, via an interactive data entry terminal, e.g., a conventional personal computer, as is known in the art.

In an alternative embodiment, the vendor may supply the
30 quantified vendor capability attributes VA_{ij} by paper form (not shown),

the data from which is then entered into the PrintProSyssm server storage by manual means. As yet another alternative, the vendor can supply the quantified vendor capability attribute data VA_{ij} by magnetic data storage media, or optical data storage media, or equivalent transportable media of the types that are well known in the data storage arts.

Upon completion of step 8 the PrintProSyssm server contains J of the above-identified Buyer's Vendor Pools BVP_j , for $j = 1$ to J , each consisting of K_j vendor records VR_{ij} , each vendor record having the received quantified vendor capability attribute data VA_{ij} . The quantified vendor capability attribute data VA_{ij} field of the vendor records VR_{ij} for which no was received are null entries.

Referring to Fig. 1, any of the J buyers, for example the j^{th} buyer, may now proceed to step 10 and transmit a buyer's invitation for bid specification BIFB to the PrintProSyssm server. In response to receiving the BIFB from the j^{th} buyer, the PrintProSyssm server goes to step 12 and calculates or extracts a vendor capability criteria CC from the BIFB, which defines the values that the quantified vendor capability attribute data VA_{ij} field of a vendor record VR_{ij} must have to qualify for bidding on the job defined by the buyer's invitation for bid specification BIFB.

Referring again to Fig. 1, the method proceeds to step 14 where the PrintProSyssm server compares or correlates the extracted a vendor capability criteria CC against the vendor capability attribute data VA_{ij} of each vendor record VR_{ij} in, or having a j value representing of it being in, the j^{th} Buyer's Vendor Pool BVP_j . Next, at step 16, for each, if any, of the vendor records VR_{ij} having a vendor capability attribute data VA_{ij} meeting the vendor capability criteria CC , the PrintProSyssm server reformats the BIFB into a vendors' invitation for bid VIFB, and transmits the VIFB to the print vendor based on the name and address

field of the vendor record VR_{ij} . The vendor's invitation for bid VIFB specifies the print information product or service in a consistent, standardized format so that each receiving vendor will understand clearly all product, delivery and other requirements for the print information item or service that is being placed out for bids by the buyer. This arrangement ensures that the bids are comparable and that mistakes as to the requirements of the buyer are minimized, while enabling each vendor to prepare a more precise calculation of its responding bid B_i .

Referring to Fig. 1, at step 18 one or more of the vendors receiving the vendor's invitation for bid VIFB submits a bid B_i to the system, where the index "i" identifies the submitting vendor. The bid is received by and input to the PrintProSyssm data server. Then, at step 20 the PrintProSyssm data server detects the lowest price bid and at step 22 transmits to the buyer a data, WIN, informing of the identity of that lowest price vendor. At step 24 the PrintProSyssm server awaits receipt of approval data APP from the buyer and, upon receipt, issues an order data ORDER to the selected vendor for purchase of the print item or procurement of the printing service at the bid price. If step 24 does not receive the approval data APP no order data ORDER is transmitted. At step 26 the PrintProSyssm data server generates BIDINFORM data representing the remaining non-selected vendors in the vendor selection pool VSP_{jk} and the identity and the bid price of the bids B_i received from all of the responding vendors, and this data is then transmitted to all of the vendors.

A minor variation of the above-described first embodiment, which is not shown, omits the step 4 generation of the invitation-to-subscribe ITS_{ij} , for $i = 1$ to K_j .

A first embodiment of the invention, and variations thereof, have been described in reference to Fig. 1. In the Fig. 1 embodiment, step 2

inputs a vendor record VR_{ij} for each i vendor which make up an initial vendor pool for each buyer j , and steps 6 and 8 then quantify and input a vendor capability attribute VA_{ij} into one or more of the vendor records VR_{ij} . The above-described step 12 then calculates or extracts a vendor capability criteria CC from the invitation for bid BIFB, which defines the values that the quantified vendor capability attribute data VA_{ij} must have to qualify the i^{th} vendor for bidding on the j^{th} buyer's BIFB. Step 14 then selects the vendors that receive the vendor's invitation-for-bid VIFB, based on comparing the vendor capability criteria CC to the quantified vendor capability attribute data VA_{ij} for each the j^{th} buyer's vendors i .

Referring to Figure 3, an alternative embodiment is depicted, with like blocks having like labels compared to Fig. 1. In the Fig. 3 embodiment, each vendor record VR_{ij} has a preferred vendor flag PV_{ij} . The preferred vendor flag has logical values of "yes" and "no", which represent whether the i^{th} vendor is a preferred vendor for the j^{th} buyer. The value of PV_{ij} can be set at step 40, when the vendor record VR_{ij} is entered. Step 40 is otherwise identical to step 2 of Fig. 1. This embodiment does not enter vendor capability attributes VC_{ij} and does not extract a capability criteria CC from a received buyer's invitation-for-bid. Instead, after receipt of a BIFB at step 10, vendors are selected at step 42 to receive vendor's invitations-for-bid VIFS solely on whether or not the vendor is a preferred vendor of the j^{th} buyer.

Referring to Fig. 4, an example of a still further embodiment of the invention will be described. The example Fig. 4 embodiment comprises the above-described steps for the Fig. 1 first embodiment, and an additional step 28 at which the PrintProSyssm generates a milestone data set $MSTONE$ representing a set of job milestones calculated from the schedule, quantity and product or service descriptors corresponding to the awarded bid. Example milestones

values represented by MSTONE include, but are not limited to, paper and supply availability, scheduling and finishing of prep, proofing, pre-press, press sheet inspections, press work, bindery, special finishing and shipping and delivery.

5 A still further embodiment, which is not depicted, combines the above-described step 28 of generating a milestone data set MSTONE with the above-described embodiment of Fig. 3.

Another embodiment of the invention combines embodiments of Figs. 1 and 3, and selects vendors for receipt of vendors' invitation-for-
10 bid VIFB based on either of the two described selection criteria being met, i.e., if the extracted vendor capability criteria CC is met by the vendor capability data VC_{ij} , or if the vendor has a preferred vendor PV_{ij} flag value of "yes".

Yet another embodiment of the invention receives an invoice
15 data from the winning print vendor upon completion of the job, and generates a corresponding buyer's invoice in response. The system then receives a fund transfer from the buyer based on the buyer's invoice and deposits the fund into an escrow account. Next, the system subtracts a system fee from the deposited amount, transfers that
20 system fee to a system administration account, and transmits the remainder from the escrow to the winning print vendor. This embodiment provides a single source accounting for buyers dealing with a plurality of vendors.

As can be readily determined by one of ordinary skill in the art of
25 print procurement, there are numerous advantages obtained with the present described invention. First, the invention quantifies both the buyer's needs and the vendors' attributes in a database system that matches objective print information product or service specifications with pre-determined vendor quality levels and manufacturing,
30 production, or provider capabilities. The invention creates multiple

vendor pools for each buyer, each vendor pool being for a particular type of print information product or service. As a result, the print buyer has a large pool of qualified vendors to which each invitation-for-bid can be distributed. Further, the buyer is no longer dependent on an individual print vendor's specialized knowledge and, instead, is able to obtain competitive pricing based on objective specifications that reflect the buyer's requirements rather than one particular vendor's existing backlog, manufacturing, production, or provider preferences. At the same time, print vendors can calculate more precisely, and hence more competitively, the pricing in their bids due to availability of complete objective specifications. Most importantly, given a sufficiently large vendor pool for each job, combined with the fact that each vendor can bid high, bid low, or not bid at all without concern for loss of the buyer's good will, the buyer is virtually assured of receiving "contribution pricing" from at least one responding vendor on each and every job.

In addition, by employing the invention, the print buyer sets the parameters for both vendor pool selection and for the bidding and award process. The parameters are set in such a way, however, that vendor quality and responsibility is determined at the time each vendor pool is established and only the responsiveness of each vendor's bid is reviewed at the time of award. In this manner, the buyer can create and manage large vendor pools without having to assess the quality of each bidder each time an individual job is bid. Moreover, the bidding and award process is standardized so as to make the dissemination of invitations for bid, the receipt of bids, and the award of the job to the lowest responsive bidder virtually automatic and without the need for additional procurement staff or the expenditure of related out-of-pocket administrative costs.

Moreover, the invention creates a system of "no-holds barred" competitive bidding. Once approved for a vendor bidding pool, the

printing vendor no longer has to expend additional costs on sales or marketing to obtain future jobs from the same buyer, and from other buyers with pre-qualification requirements met by the vendor's capability attributes. The printing vendor is thereby assured access to
5 future bidding opportunities that match the vendor's quantified quality level and/or manufacturing, production, or provider capabilities. In addition, knowing beforehand that the award will go to the lowest responsive and responsible bidder, each participating vendor will have an incentive to submit their lowest bid upfront, rather than hold back
10 their lowest bid, as they would otherwise be inclined to do if the award was still going to be negotiated after bid opening. The invention further provides that all bids are released to all bidders after award, thereby creating a "ratcheting down" effect as each vendor learns how low the price range is likely to be on similar jobs in the future. As
15 result, buyers who use the invention will benefit from consistently low prices from selected quality vendors, while enabling their purchasing personnel to focus on budget planning, job preparation, internal customer service needs, and production quality and compliance.

20 It is to be understood that the present invention is described above in reference to embodiments which are for purposes of example only, and that the invention is not limited to the specific arrangement, order of processing, or hardware for carrying out the steps as described hereinabove or shown in the drawings, but also
25 comprises the various modifications readily apparent to one skilled in the art upon reading this specification, as defined by the broadest scope of the appended claims.

What is claimed is:

1. A method for competitive bidding by print information product vendors comprising steps of:

inputting a plurality of vendor records into a storage of a general purpose computer, each of said vendor records having a data field identifying a print information product vendor and a buyer identification data field identifying a buyer that said vendor is associated with;

inputting a buyer's invitation-for-bid data into said general purpose computer, said buyer's invitation-for-bid data having a buyer identification data, and having an invitation for bid on a print information product job from said buyer;

identifying at least one vendor record as qualified, based on a match of said buyer identification data and the buyer identification data field of said at least one vendor record;

transmitting a vendor's invitation-for-bid data to said at least one vendor;

inputting into said general purpose computer a plurality of bid data, each from one of said plurality of vendors to which said vendor's invitation-for-bid data was transmitted, each of said bid data representing a bid price;

identifying a bid data from said received bid data having the lowest represented bid price;

outputting a selected vendor data representing the identity of the vendor corresponding to the bid data identified by said identifying step; and

transmitting an order to the vendor represented by said selected vendor data.

2. A method according to claim 1 further comprising a step of:

inserting a vendor capability data into at least one of said vendor records, said vendor capability data representing a set of vendor manufacturing capabilities of the print information product vendor identified by said record;

calculating a vendor requirement data from said buyer's invitation-for-bid data, said vendor requirement data representing a set vendor manufacturing capabilities required for performing said print information product job; and

comparing said vendor requirement data to the print information product records associated with the buyer from which said buyer's information-for-bid was received,

wherein said step of identifying at least one vendor record as qualified is based on said comparing and said match of said buyer identification data and the data field of said at least one vendor record identifying a buyer that said vendor is associated.

3. A method according to claim 1 further comprising steps of:
ranking said received bid data according to said represented bid price; and

transmitting an information data from said general purpose computer to other vendors identifying said selected vendor and the rank order value of said received bid data.

4. A method according to claim 2 further comprising steps of:
ranking said received bid data according to said represented bid price; and

transmitting an information data from said general purpose computer to other vendors identifying said selected vendor and the rank order value of said received bid data.

5. A method according to claim 2, wherein said vendor capability data represents the identified vendor's capability to manufacture each of a plurality of different types of print information products.

6. A method according to claim 2, further comprising steps of
transmitting a request for vendor capability data to said at least one vendor associated with at least one of said buyers;

receiving a first formatted vendor capability data from said at least one vendor; and

converting said first formatted vendor capability data into said vendor capability data,

wherein said step of inputting a vendor capability data inputs said converted data.

7. A method according to claim 2 wherein said vendor capability data input for each of a plurality of printing vendors represents a set of vendor capabilities relating to objective and subjective parameters for each of a plurality of types of print information products.

8. A method according to claim 1, further comprising steps of:

inputting into said central data server a completion of job data;
transmitting from said central data server to said buyer an invoice for payment of said bid price;

inputting a payment from said buyer into an escrow account via electronic fund transfer;

subtracting a system access fee data and a licensing fee data from a data representing said payment deposited into said escrow account to generate a remainder payment data; and

transferring a payment from said escrow account to an account of said vendor corresponding to said remainder payment data.

9. A method according to claim 2, further comprising steps of:

inputting into said central data server a completion of job data;
transmitting from said central data server to said buyer an invoice for payment of said bid price;

inputting a payment from said buyer into an escrow account via electronic fund transfer;

subtracting a system access fee data and a licensing fee data from a data representing said payment deposited into said escrow account to generate a remainder payment data; and

transferring a payment from said escrow account to an account of said vendor corresponding to said remainder payment data.

10. A method according to claim 1, further comprising a step of:

calculating a job milestone data based on said buyer's invitation-for-bid data.

11. A method according to claim 10 further comprising steps of:

generating a job progress verification request based on said job milestone data; and

entering a data into said central data server representing a job progress corresponding to said job progress verification request.

12. A method according to claim 2, further comprising a step of:

calculating a job milestone data based on said buyer's invitation-for-bid data.

13. A method according to claim 12 further comprising steps of:

generating a job progress verification request based on said job milestone data; and

entering a data into said central data server representing a job progress corresponding to said job progress verification request.

14. A system for competitive bidding by print information product vendors comprising:

means for inputting a plurality of vendor records into a storage of a general purpose computer, each of said vendor records having a data field identifying a print information product vendor and a buyer

identification data field identifying a buyer that said vendor is associated with;

means for inputting a buyer's invitation-for-bid data into said general purpose computer, said buyer's invitation-for-bid data having a buyer identification data, and having an invitation for bid on a print information product job from said buyer;

means for identifying at least one vendor record as qualified, based on a match of said buyer identification data and the buyer identification data field of said at least one vendor record;

means for transmitting a vendor's invitation-for-bid data to said at least one vendors;

means for inputting into said general purpose computer a plurality of bid data, each from one of said plurality of vendors to which said vendor's invitation-for-bid data was transmitted, each of said bid data representing a bid price;

means for identifying a bid data from said received bid data having the lowest represented bid price;

means for outputting a selected vendor data representing the identity of the vendor corresponding to the bid data identified by said identifying means; and

means for transmitting an order to the vendor represented by said selected vendor data.

15. A system according to claim 14 further comprising:

means for inserting a vendor capability data into at least one of said vendor records, said vendor capability data representing a set of vendor manufacturing capabilities as of the print information product vendor identified by said record;

means for calculating a vendor requirement data from said buyer's invitation-for-bid data, said vendor requirement data

representing a set vendor manufacturing capabilities required for performing said print information product job; and

means for comparing said vendor requirement data to the print information product records associated with the buyer from which said buyer's information-for-bid was received,

wherein said means for identifying at least one vendor record as qualified performs said identifying based on a result of said comparing means and a match of said buyer identification data and the buyer identification data field of said at least one vendor record.

**Apparatus and Method for Obtaining
Lowest Bid From Information Product Vendors**

Abstract of the Disclosure

A system and method for competitive bid selection from a plurality print and other customized information a database of vendor records, vendor, one or more buyers who approves the vendor for receipt of invitations to bid, and a vendor capability data representing production and vendor. A buyer's invitation for bid data is received, representing specific print and other customized information product or service and an invitation to bid on that product service, and a data identifying vendor requirements for producing the product is calculated. A vendor's invitation to bid is transmitted to the vendors from among those approved by the buyer associated with the buyer's invitation for bid having a vendor capability data meeting the calculated vendor requirements. Responding bids from the vendors are input into the database and ranked in order of price. The lowest price bid is identified and an order is issued to the selected vendor. Further, a bid information data is transmitted to each of the non-selected vendors, representing the identity of the selected vendor and the rank order value of the bids.

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